

Abstract**Gain Control Circuit**

An automatic gain control circuit is used to vary the gain of a low noise
5 amplifier and baseband amplifiers in a direct conversion receiver in a mobile
telephone handset. The automatic gain control circuit is configured to cause a
power level (57) of a signal supplied to an analog-to-digital converter having a
signal-to-noise ratio of 33dB to converge on a reference level (49) using a
two-stage process.

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(Figure 9)